M1047/0090
April
6098

U.S. OIL SANDS®
www.usoilsandsinc.com

June 9, 2014

April Abate
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Re: **Update of Table 2 to match phased bonding for Year 1. U.S. Oil Sands, Inc., PR Spring Mine - Notice of Intention to Commence Large Mining Operations**

Dear April,

Per our conversation, enclosed is the MR-REV for the revised Table 2 (pg. 23). This Table now matches the Year 1 surety calculations also enclosed.

As always, we appreciate your help with our permitting needs.

Sincerely,

Doug Thornton, HSE & Regulatory Manager

Enclosures
cc: Linda Matthews, JBR now Stantec

Suite #1600, 521 – 3rd Avenue SW, Calgary, AB, T2P 3T3 CANADA Office 403-233-9366 Fax 587-353-5373

Form MR-REV-att (DOGM – Revise/Amend Change Form)
(Revised September 14, 2005)

Application for Mineral Mine Plan Revision or Amendment

Operator: U.S. Oil Sands, Inc.

Mine Name: PR Spring Mine **File Number:** M/ 047 /0090

Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. **Include page, section and drawing numbers as part of the description.**

DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☐ ADD	☒ REPLACE	☐ REMOVE	Page 23
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.

Doug Thornton
Print Name

[signature] HSE & Regulatory Mgr.
Sign Name, Position

June 9, 2014
Date

Return to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Phone: (801) 538-5291 Fax: (801) 359-3940

FOR DOGM USE ONLY:
File #: M/ /
Approved:
Bond Adjustment: from ($)
to $

O:\FORMS\MR-REV-att.doc

Table 2: Disturbance by Year (approximate)

Year	Planned Disturbance (acres)	Type of Disturbance	Cumulative Disturbance (acres)
Year 1	64	Plant site, roads, topsoil storage, portion of North (Opening) Pit, portion of overburden/interburden storage areas	64
Year 2	66	Expansion of North (Opening) Pit, expansion of overburden/interburden storage area	130
Year 3	35	Expansion of North (Opening) Pit, expansion of overburden/interburden storage area	165
Year 4	15	Expansion of overburden/interburden storage area	180
Year 5	5	Expansion of overburden/interburden storage areas	185
Year 6	20	Begin West Pit	205
Year 7	8	Expansion of West Pit	213
Total	213	Disturbance includes all areas bonded under this NOI	213

Notes: (1) After year 7, mining and processing may continue, but no additional disturbance would occur. (2) While year-to-year disturbance given above may change as conditions warrant, in no case will total disturbance exceed the permitted 213 acres.

Deleterious materials and their management during operations are described above within the operating descriptions in Section 106.2.

106.4. Nature and Amount of Materials to be Mined

The materials to be mined are tar sands. In the Uinta Basin of Utah, the tar sands deposits are overlain by the Green River Formation containing lenticular beds of lacustrine sandstone saturated with bitumen separated by intervals of barren sandstone, siltstone, shale, mudstone and calcareous marl. The overburden materials are comprised of siltstone and sandstone with interbedded shale; interburden layers between the tar sand deposits are expected to have the same characteristics as the overburden materials. Figure 5 provides a geology map showing surface formations in the area, and Figure 6 provides a geologic cross section that focuses on the tar sands beds within the Douglas Creek member.

Areas to be mined within the overall pit layout are categorized by geology and presence of overburden/interburden, as shown in the following table. The mining areas have been characterized into layers including overburden, tar sand layers in the 'D' bed and 'C' bed, and interburden. Overburden varies from 0 to 50 foot depth and averages 20 foot depth. Interburden thickness averages 30 feet. The "D" bed averages 12 feet in thickness and the "C" bed averages 23 feet in thickness.

Table 2: Disturbance by Year (approximate)

Year	Planned Disturbance (acres)	Type of Disturbance	Cumulative Disturbance (acres)
Year 1	~~100~~64	Plant site, roads, topsoil storage, portion of North (Opening) Pit, portion of overburden/interburden storage areas	~~100~~64
Year 2	~~30~~66	Expansion of North (Opening) Pit, expansion of overburden/interburden storage area	130
Year 3	35	Expansion of North (Opening) Pit, expansion of overburden/interburden storage area	165
Year 4	15	Expansion of overburden/interburden storage area	180
Year 5	5	Expansion of overburden/interburden storage areas	185
Year 6	20	Begin West Pit	205
Year 7	8	Expansion of West Pit	213
Total	213	Disturbance includes all areas bonded under this NOI	213

Notes: (1) After year 7, mining and processing may continue, but no additional disturbance would occur. (2) While year-to-year disturbance given above may change as conditions warrant, in no case will total disturbance exceed the permitted 213 acres.

Deleterious materials and their management during operations are described above within the operating descriptions in Section 106.2.

106.4. Nature and Amount of Materials to be Mined

The materials to be mined are tar sands. In the Uinta Basin of Utah, the tar sands deposits are overlain by the Green River Formation containing lenticular beds of lacustrine sandstone saturated with bitumen separated by intervals of barren sandstone, siltstone, shale, mudstone and calcareous marl. The overburden materials are comprised of siltstone and sandstone with interbedded shale; interburden layers between the tar sand deposits are expected to have the same characteristics as the overburden materials. Figure 5 provides a geology map showing surface formations in the area, and Figure 6 provides a geologic cross section that focuses on the tar sands beds within the Douglas Creek member.

Areas to be mined within the overall pit layout are categorized by geology and presence of overburden/interburden, as shown in the following table. The mining areas have been characterized into layers including overburden, tar sand layers in the 'D' bed and 'C' bed, and interburden. Overburden varies from 0 to 50 foot depth and averages 20 foot depth. Interburden thickness averages 30 feet. The "D" bed averages 12 feet in thickness and the "C" bed averages 23 feet in thickness.